

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

December 19, 2005

U. S. Army Corps of Engineers Regulatory Field Office Post Office Box 1000 Washington, NC 27889-1000

Attention:

Mr. William J. Biddlecome

NCDOT Coordinator

Dear Sir:

Subject:

Request for Nationwide 12 Permit for the Replacement of Bridge No. 11 on

SR 1219 (Francis Mill Road) over the Cashie River in Bertie County. Federal

Project No. BRZ-1219[1], State Project No. 8.2010501, TIP No. B-4027.

Reference:

Action ID No. 200310719

Since issuance of the Nationwide 23 Permit for TIP No. B-4027, Utility Relocation Design has been revised to accommodate for waterline relocation. As illustrated in the attached Utility Plan, mechanized clearing and excavation will be required to join the new waterline to the existing with an elbow connection. This will entail permanent impacts to 0.0392 acre of jurisdictional wetland. Additionally, temporary fill will occur adjacent to the excavated area and within the mechanized clearing zone and temporary "hand-clearing" impacts to jurisdictional wetland will result from waterline and power/telephone line relocation.

Revisions to CAMA Major Development Permit Application were made under separate cover. Thank you for your assistance with this project. If you have any questions or need additional information, please Tyler Stanton at tstanton@dot.state.nc.us or (919) 715-1439.

Sincerely,

Gregory J. Thorpe, Ph.D. Environmental Management Director,

Project Development and Environmental Analysis Branch

TELEPHONE: 919-733-3141 FAX: 919-733-9794

WEBSITE: WWW.DOH.DOT.STATE.NC.US

Cc W/attachment:

Mr. John Hennessy, NCDWQ (2 Copies)

Mr. Travis Wilson, NCWRC

Mr. Gary Jordan, USFWS

Mr. Ron Sechler, NMFS

Mr. Michael Street, NCDMF

Dr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Mark Staley, Roadside Environmental

Mr. Anthony Roper, P.E., Division 1 Engineer

Mr. Clay Willis, Division 1 Environmental Officer

Cc W/o attachment:

Ms. Wanda Gooden, NCDCM

Ms. Cathy Brittingham, NCDCM

Mr. Scott McLendon, USACE, Wilmington

Mr. Jay Bennett, P.E., Roadway Design

Mr. Majed Alghandour, Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Ms. Beth Harmon, EEP

Mr. Todd Jones, NCDOT External Audit Branch

Mr. Bill Goodwin, P.E., PDEA

Offic	ce Us	e Only:			Form Version March 05
USA	CE A	action ID No.		D	OWQ No.
		(If any particular item is	not applicable to this pr	oject,	, please enter "Not Applicable" or "N/A".)
I.	Pr	ocessing			
	1.	Check all of the approximately Section 404 Permit Section 10 Permit ☐ 401 Water Quality	it	this p	project: Riparian or Watershed Buffer Rules Isolated Wetland Permit from DWQ Express 401 Water Quality Certification
	<u>2.</u>	Nationwide, Regional	or General Permit N	Numb	ber(s) Requested: Nationwide 12
	3.	If this notification is s is not required, check		y bec	cause written approval for the 401 Certification
	4.		_		n Enhancement Program (NCEEP) is proposed nce letter from NCEEP, complete section VIII,
	5.	4), and the project is	s within a North C	arolir	rolina's twenty coastal counties (listed on page ina Division of Coastal Management Area of for further details), check here:
II.	Ap	plicant Information			
	1.	Owner/Applicant Info Name: Mailing Address:		_	Ph.D., Environmental Management Director Center
					Fax Number: (919) 733-9794
	2.	must be attached if the Name: Company Affiliation:	e Agent has signator	y autl	dated copy of the Agent Authorization letter thority for the owner/applicant.)
		Telephone Number:			Fax Number:

III. Project Information

Attach a **vicinity map** clearly showing the location of the property with respect to local landmarks such as towns, rivers, and roads. Also provide a detailed **site plan** showing property boundaries and development plans in relation to surrounding properties. Both the vicinity map and site plan must include a scale and north arrow. The specific footprints of all buildings, impervious surfaces, or other facilities must be included. If possible, the maps and plans should include the appropriate USGS Topographic Quad Map and NRCS Soil Survey with the property boundaries outlined. Plan drawings, or other maps may be included at the applicant's discretion, so long as the property is clearly defined. For administrative and distribution purposes, the USACE requires information to be submitted on sheets no larger than 11 by 17-inch format; however, DWQ may accept paperwork of any size. DWQ prefers full-size construction drawings rather than a sequential sheet version of the full-size plans. If full-size plans are reduced to a small scale such that the final version is illegible, the applicant will be informed that the project has been placed on hold until decipherable maps are provided.

.P. Project Number or State Project Number (NCDOT Only):B-4027 operty Identification Number (Tax PIN):N/A cation unty:Bertie Nearest Town:Lewiston-Woodville bdivision name (include phase/lot number): N/A rections to site (include road numbers/names, landmarks, etc.):
cation unty: Bertie Nearest Town: Lewiston-Woodville bdivision name (include phase/lot number): N/A
unty: Bertie Nearest Town: Lewiston-Woodville bdivision name (include phase/lot number): N/A
bdivision name (include phase/lot number): N/A
rections to site (include road numbers/names, landmarks, etc.):
e coordinates (For linear projects, such as a road or utility line, attach a sheet that parately lists the coordinates for each crossing of a distinct waterbody.) cimal Degrees (6 digits minimum):77.1210°N36.1240°W
operty size (acres): N/A
me of nearest receiving body of water: Cashie River
ver Basin: Roanoke ote – this must be one of North Carolina's seventeen designated major river basins. The ver Basin map is available at http://h2o.enr.state.nc.us/admin/maps/ .)
scribe the existing conditions on the site and general land use in the vicinity of the projecthe time of this application: Rural with forested areas and scattered residential and ms.

	10. Describe the overall project in detail, including the type of equipment to be used: Replacement of the existing bridge structure with a 160-foot cored slab bridge at approximately the same location and a slightly higher roadway elevation of the existing structure using top-down construction.
	11. Explain the purpose of the proposed work: The bridge is considered to be structurally deficient and functionally obsolete and the replacement will result in safer traffic operations.
IV.	Prior Project History
	If jurisdictional determinations and/or permits have been requested and/or obtained for this project (including all prior phases of the same subdivision) in the past, please explain. Include the USACE Action ID Number, DWQ Project Number, application date, and date permits and certifications were issued or withdrawn. Provide photocopies of previously issued permits, certifications or other useful information. Describe previously approved wetland, stream and buffer impacts, along with associated mitigation (where applicable). If this is a NCDOT project, list and describe permits issued for prior segments of the same T.I.P. project, along with construction schedules. N/A
V.	Future Project Plans
	Are any future permit requests anticipated for this project? If so, describe the anticipated work, and provide justification for the exclusion of this work from the current application. N/A

VI. Proposed Impacts to Waters of the United States/Waters of the State

It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to wetlands, open water, and stream channels associated with the project. Each impact must be listed separately in the tables below (e.g., culvert installation should be listed separately from riprap dissipater pads). Be sure to indicate if an impact is temporary. All proposed impacts, permanent and temporary, must be listed, and must be labeled and clearly identifiable on an accompanying site plan. All wetlands and waters, and all streams (intermittent and perennial) should be shown on a delineation map, whether or not impacts are proposed to these systems. Wetland and stream evaluation and delineation forms should be included as appropriate. Photographs may be included at the applicant's discretion. If this proposed impact is strictly for wetland or stream mitigation, list and describe the impact in Section VIII below. If additional space is needed for listing or description, please attach a separate sheet.

1. Provide a written description of the proposed impacts:

2. Individually list wetland impacts. Types of impacts include, but are not limited to mechanized clearing, grading, fill, excavation, flooding, ditching/drainage, etc. For dams,

separately list impacts due to both structure and flooding.

Wetland Impact Site Number (indicate on map)	Type of Impact	Type of Wetland (e.g., forested, marsh, herbaceous, bog, etc.)	Located within 100-year Floodplain (yes/no)	Distance to Nearest Stream (linear feet)	Area of Impact (acres)
Sta15+78 – 15+85	Mechanized Clearing	palustrine	yes	adjacent	0.012
Sta15+81 - 15+85	Excavation	palustrine	yes	adjacent	0.002
Sta15+81 - 15+85	Temporary Fill	Palustrine	yes	adjacent	0.002
Sta22+36 - 23+00	Mechanized Clearing	Palustrine	yes	adjacent	0.027
Sta22+36 - 22+81	Excavation	palustrine	yes	adjacent	0.003
Sta22+36 - 22+81	Temporary Fill	Palustrine	yes	adjacent	0.003
Sta15+85 - 16+61	Hand Clearing	palustrine	yes	adjacent	0.017
Sta20+33 - 21+00	Hand Clearing	palustrine	yes	adjacent	0.011
Sta14+31 - 15+06	Hand Clearing	palustrine	yes	adjacent	0.022
Sta20+63 - 21+33	Hand Clearing	palustrine	yes	adjacent	0.015
			Total Wetland	Impact (acres)	0.114

3. List the total acreage (estimated) of all existing wetlands on the property: 26.6

4. Individually list all intermittent and perennial stream impacts. Be sure to identify temporary impacts. Stream impacts include, but are not limited to placement of fill or culverts, dam construction, flooding, relocation, stabilization activities (e.g., cement walls, rip-rap, crib walls, gabions, etc.), excavation, ditching/straightening, etc. If stream relocation is proposed, plans and profiles showing the linear footprint for both the original and relocated streams must be included. To calculate acreage, multiply length X width, then divide by 43,560.

Stream Impact Number (indicate on map)	Stream Name	Type of Impact	Perennial or Intermittent?	Average Stream Width Before Impact	Impact Length (linear feet)	Area of Impact (acres)
	Total Stream In	npact (by length and ac	creage)		0	0

5. Individually list all open water impacts (including lakes, ponds, estuaries, sounds, Atlantic Ocean and any other water of the U.S.). Open water impacts include, but are not limited to fill, excavation, dredging, flooding, drainage, bulkheads, etc.

6.

Open Water Impact Site Number (indicate on map)	Name of Waterbody (if applicable)	Type of Impact	Type of Waterbody (lake, pond, estuary, sound, bay, ocean, etc.)	Area of Impact (acres)
		A		
	Total Ope	en Water Impact (acres)		0

7. List the cumulative impact to all Waters of the U.S. resulting from the project:

Stream Impact (acres):	0
Wetland Impact (acres):	0.114
Open Water Impact (acres):	0
Total Impact to Waters of the U.S. (acres)	0.114
Total Stream Impact (linear feet):	0

8.	Isolated Waters					
	Do any isolated waters exist on the property? Yes No					
	Describe all impacts to isolated waters, and include the type of water (wetland or stream) and					
	the size of the proposed impact (acres or linear feet). Please note that this section only					
	applies to waters that have specifically been determined to be isolated by the USACE.					
9.	Pond Creation					
	If construction of a pond is proposed, associated wetland and stream impacts should be					
	included above in the wetland and stream impact sections. Also, the proposed pond should					
	be described here and illustrated on any maps included with this application.					
	Pond to be created in (check all that apply): uplands stream wetlands					
	Describe the method of construction (e.g., dam/embankment, excavation, installation of					
	draw-down valve or spillway, etc.):					
	Proposed use or purpose of pond (e.g., livestock watering, irrigation, aesthetic, trout pond,					
	local stormwater requirement, etc.):					

VII. Impact Justification (Avoidance and Minimization)

Current land use in the vicinity of the pond:

Size of watershed draining to pond:

Specifically describe measures taken to avoid the proposed impacts. It may be useful to provide information related to site constraints such as topography, building ordinances, accessibility, and financial viability of the project. The applicant may attach drawings of alternative, lower-impact

Expected pond surface area:____

site layouts, and explain why these design options were not feasible. Also discuss how impacts were minimized once the desired site plan was developed. If applicable, discuss construction techniques to be followed during construction to reduce impacts. Hand-clearing, Directional Bore Method.

VIII. Mitigation

DWQ - In accordance with 15A NCAC 2H .0500, mitigation may be required by the NC Division of Water Quality for projects involving greater than or equal to one acre of impacts to freshwater wetlands or greater than or equal to 150 linear feet of total impacts to perennial streams.

USACE – In accordance with the Final Notice of Issuance and Modification of Nationwide Permits, published in the Federal Register on January 15, 2002, mitigation will be required when necessary to ensure that adverse effects to the aquatic environment are minimal. Factors including size and type of proposed impact and function and relative value of the impacted aquatic resource will be considered in determining acceptability of appropriate and practicable mitigation as proposed. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland and/or upland vegetated buffers to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferable in the same watershed.

If mitigation is required for this project, a copy of the mitigation plan must be attached in order for USACE or DWQ to consider the application complete for processing. Any application lacking a required mitigation plan or NCEEP concurrence shall be placed on hold as incomplete. An applicant may also choose to review the current guidelines for stream restoration in DWQ's Draft Technical Guide for Stream Work in North Carolina, available at http://h2o.enr.state.nc.us/ncwetlands/strmgide.html.

1. Provide a brief description of the proposed mitigation plan. The description should provide as much information as possible, including, but not limited to: site location (attach directions and/or map, if offsite), affected stream and river basin, type and amount (acreage/linear feet) of mitigation proposed (restoration, enhancement, creation, or preservation), a plan view, preservation mechanism (e.g., deed restrictions, conservation easement, etc.), and a description of the current site conditions and proposed method of construction. Please attach a separate sheet if more space is needed.

The North Carolina Department of Environment and Natural Resources Ecosystem Enhancement Program (EEP), will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements.

2. Mitigation may also be made by payment into the North Carolina Ecosystem Enhancement Program (NCEEP). Please note it is the applicant's responsibility to contact the NCEEP at

(919) 715-0476 to determine availability, and written application additional information regarding the application process website at http://h2o.enr.state.nc.us/wrp/index.htm . If us check the appropriate box on page five and provide the for Amount of stream mitigation requested (linear feet): Amount of buffer mitigation requested (square feet): Amount of Riparian wetland mitigation requested (acc Amount of Non-riparian wetland mitigation requested (acc Amount of Coastal wetlan	must be attached to this form. For for the NCEEP, check the NCEEP e of the NCEEP is proposed, please ellowing information: N/A N/A res): 0.275* I (acres): N/A
*Includes impacts approved under NWP 23 (Acti	on ID: 200310719)
Environmental Documentation (required by DWQ)	
 Does the project involve an expenditure of public (fed-public (federal/state) land? Yes ∑ 	eral/state/local) funds or the use of
2. If yes, does the project require preparation of an environ requirements of the National or North Carolina Environ Note: If you are not sure whether a NEPA/SEPA do coordinator at (919) 733-5083 to review current threshold Yes ⋈ No □	nmental Policy Act (NEPA/SEPA)? cument is required, call the SEPA
3. If yes, has the document review been finalized by the attach a copy of the NEPA or SEPA final approval letter.	
Proposed Impacts on Riparian and Watershed Buffers (re	equired by DWQ)
It is the applicant's (or agent's) responsibility to determine required state and local buffers associated with the project justification for these impacts in Section VII above. All pro and must be clearly identifiable on the accompanying site pl map, whether or not impacts are proposed to the buffers Regional Office may be included as appropriate. Photograpplicant's discretion.	The applicant must also provide posed impacts must be listed herein, an. All buffers must be shown on a Correspondence from the DWQ
 Will the project impact protected riparian buffers iden (Neuse), 15A NCAC 2B .0259 (Tar-Pamlico), 15A NCA 2B .0250 (Randleman Rules and Water Supply Buffi identify)? Yes ☐ No ☒ 	C 02B .0243 (Catawba) 15A NCAC er Requirements), or other (please

IX.

X.

	Zone*	Impact (square feet)	Multiplier	Required Mitigation	
	1		3 (2 for Catawba)		
	2		1.5		
	Total				
*	Zone 1 extends ou additional 20 feet from		om the top of the near ban	k of channel; Zone 2	extends an
			e discuss what type	e of mitigation	is proposed (i.e.,
Ripa	rian Buffer Rest in 15A NCAC 2	-	r Restoration / Enlease attach all appor .0260.		-
Stormw	ater (required b	y DWQ)			
stormwa the proj demonst	nter controls property. If percentrating total pro-	ent impervious s posed impervious	rotect surface water urface exceeds 20 level. <u>Roadway</u>	rs and wetlands 0%, please pro improvements	downstream from vide calculations will result in an
stormwa the pro- demonst addition detour; a drains o	nter controls property. If percentrating total proal 0.156-acre of approach roadwan bridge; deck deck deck deck deck deck deck deck	posed in order to pent impervious sposed impervious simpervious surfacy drainage will be dirainage wil	rotect surface water urface exceeds 20	rs and wetlands 1%, please pro improvements water controls in ss 3:1 grassed s ither ends of the	downstream from vide calculations will result in an aclude: an off-site houlders; no deck bridge by gutter
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2. If "yes", identify the square feet and acreage of impact to each zone of the riparian buffers.

XIV. Cumulative Impacts (required by DWQ)

XV.

Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? Yes No X
If yes, please submit a qualitative or quantitative cumulative impact analysis in accordance with
the most recent North Carolina Division of Water Quality policy posted on our website at
http://h2o.enr.state.nc.us/ncwetlands. If no, please provide a short narrative description:N/A
IVA
Other Circumstances (Optional):
It is the applicant's responsibility to submit the application sufficiently in advance of desired construction dates to allow processing time for these permits. However, an applicant may choose to list constraints associated with construction or sequencing that may impose limits on work schedules (e.g., draw-down schedules for lakes, dates associated with Endangered and Threatened Species, accessibility problems, or other issues outside of the applicant's control).
R6511-5 12/19/05
Applicant/Agent's Signature Date
(Agent's signature is valid only if an authorization letter from the applicant is provided.)

TOTAL PERMANENT IMPACTS ON WETLAND DUE TO WATER LINE RELOCATION USING MECHANIZED CLEARING METHOD

Impact Area(A5+A6)= 0.012+ 0.027=0.039 Acres

Excavation in wetlands= 0.002 Acres
Temporary Fill in wetlands= 0.002 Acres

TOTAL TEMPORARY IMPACTS ON WETLAND DUE TO UTILITIES RELOCATION OF POWER LINES AND TELE. LINES USING HAND CLEARING METHOD

Impact Area (A1+A2+A3+A4)= 0.011+ 0.015+0.022+0.017= 0.065 Acres

TOTAL PERMANENT IMPACTS = 0.065 Acres

TOTAL WETLANDS IMPACT 0.065+0.039= 0.104 Acres

N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS BERTIE COUNTY

PROJECT: 8.2010501, (B-4027)
BRIDGE 11 OVER CASHIE RIVER
ON SR 1219

